

NOTES

CHAENORRHINUM MINUS (SCROPHULARIACEAE) NEW TO TEXAS

Chaenorrhinum minus (L.) Lange [*Linaria minor* (L.) Desf.], an erect glandular-pubescent annual native to Europe (Fernandes 1972), has long been known as a widespread weed of disturbed and waste places in the eastern United States, particularly in the ballast along railroads (Robinson & Fernald 1908 (as *Linaria*); Fernald 1950; Gleason & Cronquist 1963; Radford et al. 1968; Strausbaugh & Core 1978). It has also been reported relatively far to the west in states such as Missouri (Steyermark 1963) and Oklahoma (Blair 1978; Taylor & Taylor 1994), and from eastern Kansas west to eastern North Dakota (Holmgren 1986). However, it was not included in the Texas flora by Correll and Johnston (1970), Hatch et al. (1990), or Jones et al. (1997).

While working on the forthcoming *Shinners & Mahler's Illustrated Plants of North Central Texas* (Diggs et al.), two Texas collections of *Chaenorrhinum minus* from just south of the Red River border with Oklahoma have become known. One (*Taylor & Taylor 10570*, previously at DUR, now at BRIT) was collected along a roadside in Fannin County in 1972. A more recent collection (*Diggs 5748*, BRIT) was obtained from railroad ballast in Grayson County in 1994. Because of the weedy nature of this taxon and available appropriate habitat, additional Texas records are expected.

The species, which is unusual in having a spurred corolla, can be recognized by the following description: Erect, glandular-pubescent, often branched annual herb with stems to 40 cm tall; leaves opposite below to opposite or alternate above, the blades linear to oblong-lanceolate, 5–20 (–35) mm long, 1–3(–8) mm wide, entire; flowers in terminal, indistinct, bracteate racemes; pedicels conspicuous, 3–20 mm long in fruit; calyx lobes 2–5 mm long, subequal, linear to linear-spatulate, obtuse; corollas 4.5–9 mm long, pale lavender or lilac with yellow palate, with tube, 2-lipped limb, and a straight, cylindrical, 1–3 mm long spur; stamens 4; capsule 3–6 mm long, porate; seeds numerous; flowering May–July.—*George M. Diggs, Jr., Department of Biology, Austin College, Sherman, TX 75090, U.S.A. & Botanical Research Institute of Texas, gdiggs@austinc.edu; Constance E.S. Taylor, R. John Taylor, Southeastern Oklahoma State University, Durant, OK 74701, U.S.A., ctaylor@sosu.edu.*

REFERENCES

- BLAIR, A.P. 1978. New plant distribution records in eastern Oklahoma. *Proc. Oklahoma Acad. Sci.* 58:106–107.

- CORRELL, D.S. and M.C. JOHNSTON. 1970. Manual of the vascular plants of Texas. Texas Research Foundation, Renner.
- DIGGS, G.M. Jr., B.L. LIPSCOMB, and R.J. OKENNON. Shinnery & Mahler's illustrated plants of North Central Texas. To be published in early 1998 by the Botanical Research Institute of Texas, Fort Worth.
- FERNALD, M.L. 1950. Gray's manual of botany, 8th ed. Reprinted 1987. Dioscorides Press, Portland, Oregon.
- FERNANDES, R. 1972. *Chaenorrhinum*. In: T.G. Tutin, V.H. Heywood, N.A. Burges, D.M. Moore, D.H. Valentine, S.M. Walters, and D.A. Webb, eds. Flora Europaea. Cambridge Univ. Press, Cambridge, England. Vol. 3, pp. 224–226.
- GLEASON, H.A. and A. CRONQUIST. 1963. Manual of the vascular plants of northeastern United States and adjacent Canada. Van Nostrand Reinhold Company, New York.
- HATCH, S.L., K.N. GANDHI, and L.E. BROWN. 1990. Checklist of the vascular plants of Texas. Texas A&M Agric. Exp. Sta. Misc. Publ. 1655. College Station.
- HOLMGREN, N.H. 1986. Scrophulariaceae. In: Great Plains Flora Association. Flora of the Great Plains. Univ. Press of Kansas, Lawrence. Pp. 751–797.
- JONES, S.D., J.K. WIPIFF, and P.M. MONTGOMERY. 1997. Vascular plants of Texas: A comprehensive checklist including synonymy, bibliography, and index. Univ. of Texas Press, Austin.
- RADFORD, A.E., H.E. AHLES, and C.R. BELL. 1968. Manual of the vascular flora of the Carolinas. The Univ. of North Carolina Press, Chapel Hill.
- ROBINSON, B.L. and M.L. FERNALD. 1908. Gray's new manual of botany, 7th ed. American Book Company, New York.
- STEYERMARK, J.A. 1963. Flora of Missouri. The Iowa State Univ. Press, Ames.
- STRAUSBAUGH, P.D. and E.L. CORE. 1978. Flora of West Virginia, 2nd ed. Seneca Books, Inc., Grantsville, West Virginia.
- TAYLOR, R.J. and C.E.S. TAYLOR. 1994. An annotated list of the ferns, fern allies, gymnosperms and flowering plants of Oklahoma, 3rd ed. Southeastern Oklahoma State Univ., Durant.